

An Annotated Bibliography on North Pacific Albatrosses¹

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THREE SPECIES of albatrosses (Family Diomedidae) are breeding residents in the North Pacific—Laysan Albatross (*Diomedea immutabilis*), Black-footed Albatross (*D. nigripes*), and Steller's or Short-tailed Albatross (*D. albatrus*). At various times each of these has been decimated by man, and for some time *D. albatrus* was believed to be extinct. Their fate is by no means certain now, and scientific interest in them is growing, particularly in the two species resident on the Leeward Islands of the Hawaiian chain (*D. immutabilis* and *D. nigripes*). In our own attempts to gather information on these birds from the literature we experienced great difficulty, for, while the total number of published articles and books is not too large, the bibliographies in published works are incomplete or inaccurate, and the papers are scattered in many journals. Accordingly, we have attempted to prepare a bibliography that is as complete as we can make it now. Each reference has been read, classified, and abstracted, and this publication embodies the results.

This bibliography does not represent all of the literature on the North Pacific albatrosses, but we believe it includes all major works. We have a few incomplete references which we have been unable to verify or identify as yet. When found these will be read and abstracted. Also other references may turn up or be called to our attention. We hope to be able to publish these, as soon as all are found, in a supplement.

The bibliography is arranged alphabetically and chronologically by first author. This is followed by a combined taxonomic and subject index. Each reference, besides containing the

usual information, is followed by a group of symbols within parentheses forming a symbolic abstract, and by a brief statement of contents. Since many longer works deal with more than just these birds, relevant pages of larger papers are given; this should be useful for persons wishing to order photocopies.

The following sample references illustrate the system used in this bibliography:

Kaeding, Henry B. 1905. Birds from the West Coast of Lower California and adjacent islands. *Condor* 7:105–111. (Tech.; nig., imm.; Dist., Ecol.) Sighting records with notes on seasonal variation in numbers (p. 107).

Hattori, Toru. 1889. (The story of the Albatross of Torishima.) [In Japanese.] *Zool. Mag. (Dobutsugaku Zasshi)*, Tokyo 1(12):405–411. (Tech.; alb.; Gen.) Austin (1949): general work on behavior, reproduction, and habits.

The first of the symbols within the parentheses, before the semicolon, indicates the level of writing of the author. The four designations used are:

Tech.: technical, scholarly, scientific presentation

S. Tech.: semitechnical, scholarly, but less formal and more anecdotal

S. Pop.: semipopular, written for the educated layman, with few technical terms

Pop.: popular, entirely nontechnical

These classifications imply no judgment of the validity of the information presented; popular articles, for instance, may be of great value for certain studies.

Next, followed by a second semicolon, are the species discussed:

nig.: *D. nigripes*

imm.: *D. immutabilis*

alb.: *D. albatrus*

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The last part of the material within the parentheses gives the subject categories discussed. If five or more of the subject categories are covered for one species, the article is termed general (Gen.). The following are the subject headings used:

- Desc.: description, taxonomy, and coloration
- Dist.: geographical distribution
- Morph.: morphology and measurements
- Phys.: physiology
- Behav.: behavior, social and sexual habits, communication, flight, etc.
- Repr.: reproduction, nesting, life cycles, egg descriptions, embryology, development of young
- Ecol.: ecology, populations, food, interspecific relationships
- Prac.: practical relations with man, depredations by man, captivity, bird-strike problem

Following the symbolic abstract is a sentence giving information about the work not obvious from the abstract, or further characterizing it. This sentence is followed, in some cases, by page numbers in parentheses. These are the pages on which information about albatrosses is found.

Now we may interpret the Kaeding reference. It is a technical publication about both Black-footed and Laysan Albatrosses, dealing with their distribution and ecology, particularly as noted in the short statement. The relevant page in this article is 107.

The second illustrative reference shows some other points. The title is in parentheses, meaning that it is a translation of the original Japanese. At the beginning of the sentence is the notation: Austin (1949); this means that we did not read the work, but take the information from Austin's article. The only other secondary source used was that of Baker (1951).

The bibliography is followed by an index arranged by species, and under each, by subject headings, which are the same as those listed above. The symbolic abstract shows the largest number of subjects for all the species. In the index, on the other hand, only relevant subject references are listed for each species. For ex-

ample, in the Kaeding reference above, distribution is discussed for both *D. nigripes* and *D. immutabilis*, but ecology only for the former. Therefore, in the index the reference is not listed under ecology for the Laysan Albatross. Thus, if one wishes to know whether a reference has information on a specific subject listed in the symbolic abstract for a particular species, he can determine this from the index.

In some of the older articles modern names were not used, and interpretation was necessary. In a few cases it was impossible to tell which species was meant. In such cases, a question mark is placed after the species symbol, indicating that the species listed is our best guess.

We would like to express our appreciation to Mildred Arinoki for her conscientious work on typing and checking the manuscript.

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